

Atty. Docket No.: P65141US0
Serial No.: 09/508,095

R_1 -Y(RRPAIAINNPYVPRITYYANPAVVRPHAQIPQRQYLPNSHPPTVVRRPNLHPSF- R_2 ,
(SEQ ID NO: 17)

R_1 -GHRRRSVQWCTVSQPEATKCFQWQRNMRVRGPPVSCIKRDSPIQCIQA- R_2

(SEQ ID NO: 18),

R_1 -GHRRSVQWCAVSQPEATKCFQWQRNMRKVRGPPVSCIKRDSPIQCIQA- R_2 ,

(SEQ ID NO: 19),

R_1 -GHRRRSVQWCAVSQPEATKCFQWQRNMRKVRGPPVSCIKRDSPIQ CIQA- R_2 ,

(SEQ ID NO: 20),

R_1 -VQHQQKAMPKPWIQPKTKVIPYVRYL- R_2 (SEQ ID NO: 21),

R_1 -AIRARVVWAAVG- R_2 (SEQ ID NO: 22),

R_1 -CAVGGGCIAL- R_2 (SEQ ID NO: 23), or

R_1 -RITRKYWCROGARGGCITL- R_2 (SEQ ID NO: 24),

wherein

R_1 , R_3 independently represents NH_2 , an amino acid, or a peptide containing up to 100 amino acids,
and

R_2 , R_4 independently represents $COOH$, $CONH_2$, an amino acid, or a peptide containing up to 100
amino acids;

and the amidated acetylated, sulfated, phosphorylated, glycosylated, oxidized derivatives or
fragments thereof having bifidogenic properties.